



APPLICATIONS

Eni Aquamet 700 MB is a semi-synthetic cutting fluid with excellent technological characteristics free from chlorine, boron, secondary amines and bactericide.

Formulated with detergent and anticorrosive additives.

Eni Aquamet 700 MB is recommended in grinding and in medium severe cutting operations on ferrous materials in single and/or centralized plants.

The product can be extended to machining aluminum and its alloys after assessment of the staining test.

It guarantees low foam formation in a wide range of water hardness.

CUSTOMER ADVANTAGES

- Cutting fluid that preserve the operators and the working environment, because of absence of secondary amines and bactericides
- Low foam formation in a wide range of water hardness (optimal range: 10-45°F)
- The high antirust properties guarantee good performance on steels and in particular on cast iron machining
- The excellent detergent and anti-corrosive properties guarantee protection for machine tools, equipment and workpieces
- The good lubricating properties help to prolong the tool life and to increase the workpiece surface quality
- Free of chlorine and boron, low disposal costs
- High emulsion stability and reduction of the frequency of maintenance operations

SPECIFICATIONS - APPROVALS

- ISO 6743/7 MAE





CHARACTERISTICS

Properties	Method	Unit	Typical
Characteristics of the concentrate		-	
Appearance	-	-	clear
Density at 20°C	ASTM D 1298	kg/m ³	1000
<![CDATA[Characteristics of the emulsion]]>			
Emulsion appearance (3%, water 20°F)	-	-	transparent
pH soluz. 3%	ASTM D 1287	-	10.2
Corrosion	IP 125	-	pass at 3%
Refractometric factor	-	-	2.5

WARNINGS

- Before preparing the emulsion, it is necessary to carry out an adequate cleaning of the tanks and the circuits of the machine tool with suitable products.
- Prepare the emulsion using possibly an emulsifier.
- In case of manual mixing, it is recommended to add the product in the water slowly and shaking the mixture, never vice versa, to avoid problems of emulsion instability.
- Store the product in closed warehouse at temperature between +5 and +30° C in order to prevent product deterioration due to thermal shocks.
- Monitoring of the working emulsion is recommended in order to ensure the emulsion performance in time and prolong its useful life.
- More detailed information will be provided by the Eni Technical Assistance Service.

HANDLING INFORMATION

- Here below are reported the recommended concentrations, however the actual





concentration should be determined in accordance with the specific operating conditions. Due to the complex nature of aluminum alloys, it's suggested to check always the staining test before any processing.

Processing	Cast Iron	Steel, Steel Inox	Aluminum and Alloys
Grinding	5%	5%	
Turning, Milling	5%	7%	7%
Boring, Drilling	7%	10%	9%

